



## PATENT ABSTRACTS OF JAPAN

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AUTOMOBILE**

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(57) Abstract:

**PURPOSE:** To prevent any wrong alarm and improve a burglar effect due to the expansion of detecting region by generating an alarm signal when a Doppler signal generated by heavily hitting a window glass or car body continues for a predetermined time or more.

**CONSTITUTION:** A supersonic Doppler radar 1 comprised a pulse generating circuit 11, a supersonic transmission sensor 12 driven by the output pulse thereof to generate the supersonic wave, a supersonic reception sensor 13 for receiving supersonic wave transmitted from said sensor 12 and reflected from a window glass and seat of an automobile, a mixing circuit 14 for mixing the output from said circuit 13 with the output of the generating circuit 11, a low pass filter 15 for extracting Doppler signal from the output of said circuit 14 and an amplifier 16 for amplifying the output of said filter 15. When a person moves, the Doppler signal appears in the output of the radar 1 and an alarm signal e is generated from an one shot multivibrator 24 in a signal processes section 2.

